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SQUIRE, SANDERS & DEMPSEY LLP. 8000 TOWERS CRESCENT DRIVE 14TH FLOOR VIENNA, VA 22182-6212			EXAMINER	
			WU, JIANYE	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/801,641	Applicant(s) LAURILA ET AL.
	Examiner JIANYE WU	Art Unit 2616

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED. (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(o).

Status

- 1) Responsive to communication(s) filed on **4/14/08**.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) **1-3,5-14,16-40 and 42-53** is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) **1-3,5-14,16-40 and 42-53** is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date _____
- 4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____
- 5) Notice of Informal Patent Application
 6) Other: _____

DETAILED ACTION

Response to Arguments/ Amendment

1. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn. However, upon further consideration, a new ground(s) of rejection is made.
2. Applicant have made many amendments, but the amendments appear only changing the wording, do not change the scope of the subject matter.

Information request/Interview

3. Examiner contacted Applicant (David Nelson, reg# 47818) on May 7, 2008 for more detailed information regarding the differences between the application and the combination of 3GPP 33 107 and 3GPP 29 207. Applicant informed Examiner on May 9 that the application emphasis on protocols on **different types** of networks.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

5. **Claims 1-3, 5-6, 8-14, 16-30, 32-40, 42-53** are rejected under 35 U.S.C. 103(a) as being anticipated by 3GPP TS 33.107 version 6.0.0 (hereinafter 3GPP107; Applicant submitted a copy of 3GPP TS 33.107 version 6.0.0, but did not list it in IDS; furthermore, the content of version 6.0.0 is same as version 5.50 which was published in 2002-12 as indicated in page 68 of the document of version 6.0.0 with both being editing version of SP-21).

For claims 1, 38, 47 and 50-53, 3GPP107 discloses a method in claim 1, an apparatus in claim 38, 47, 50, 52-53 configured for and a computer medium in claim 51 encoded computer executable instructions for, implementing steps comprising:

monitoring (LEMF, figure 1b and page 8) signaling information ("request for lawful interception activation" in Figure 1b and page 10) related to at least one session (Legal Interception session between LEMF and GSN in Figure 1b) involving at least a first network (GSN of Figure 1b, or MGW of Figure 1a, or HLR of Figure 1c) and a second network (LEMF network, figure 1b or 1a or 1c) of different types (LEMF network is different from GSN), and monitoring session content related to the same at least on session (LEMF is monitoring the contents of the LI session between LEMF and GSN in Figure 1b) provided in at least one of the first and second networks, wherein said session content related to the same at least one session is provided in another of the first and second networks (contents of the LI session between LEMF and GSN, Figure 1b and page 10);

delivering an indication to start interception is delivered between the first and second networks ("request for lawful interception activation" in Figure 3 from LEMF to ADMF);

wherein one of a network element and a function of the first network sends LI Lawful Interception information either directly to one of a support node of the second network, an Administration Function (both "request for lawful interception interrogation" and "request for lawful interception ack" are sent to ADMF in Figure 4 in view of Figure 1b), and a Delivery Function (DF 2 in Figure 1b);

3GPP107 is silent on wherein a Mapping Function is provided which translates target indications of the first network to corresponding target indications of the second network associated with a same monitored user.

However, 3GPP107 discloses that LEMF being an IMS under 3GPP architecture and GSN being a GPRS support network (Figure 1b and page 8) is capable of capturing any data belongs to any user (Figure 1a-1c), therefore, there exist a mapping function between LEMF network and its monitoring networks to ensure that it is able to capture the data associated with a particularly monitored user.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to provide a mapping function which translates target indications of the first network to corresponding target indications of the second network associated with a same monitored user in order to capture the data associated with any monitored user.

As to **claims 2 and 39**, 3GPP107 discloses claim 1 and 38, wherein the step of monitoring signaling information comprises monitoring signaling information provided in an IP Multimedia Subsystem (IMS) network (LEMF in Figure 1b; networks described in 3GPP are IMS network, as indicated in Figure C.2).

As to **claim 3 and 40**, 3GPP107 discloses claim 1 and 38, wherein the step of monitoring session content comprises monitoring session content provided in a General Packet Radio Service (GPRS) network (GSN, Figure 1b and GSN is "GPRS Support Node" by definition in page 8).

As to **claim 5 and 42**, 3GPP107 discloses claim 1 and 38, wherein said one of the network element and the function of the first network is a Control State Control Function (CSCF, page 11, line 1-20 in view of page 8 and Figure. 2).

As to **claim 6 and 43**, 3GPP107 discloses claim 1 and a system according to claim 38, wherein the administration function (ADMF of Figure. 2) is included in the signaling path and commands a support node of the second network to start the interception.

As to **claim 8**, 3GPP107 discloses claim 1, wherein the LI information is sent during media authorization (suggested by "Authorize QoS Resources", Figure C.2).

As to **claim 9**, 3GPP107 discloses claim 1, wherein the LI information is sent to a Gateway General Packet Radio Service Support Node (GSN, Fig. 1c in view of definition page 8) from a Proxy-Call State Control Function (P-CSCF, Figure C.2).

As to **claim 10**, 3GPP107 discloses claim 9, wherein, when the GGSN receives the LI information (LI activate message, Figure 5), it starts the interception of the

content of communication related to the IP Multimedia Subsystem (IMS) session (suggested by "LI Activation ack", Figure 5), and delivers the information to a Serving GPRS Support Node (SGSN, Fig. 6) by attaching the LI information received from the P-CSCF to a Create PDP Context Response message ("IRI's one PDP context", page 26 in view of IRI definition in page 3), which the SGSN in turn starts the interception of content of communication related to the IMS session (the LI Session between LEMF and GSN in Figure 1b).

As to **claim 11**, 3GPP107 discloses the method according to claim 10, in case of an inter-SGSN handover, the LI information is transferred from an old SGSN of a monitored user to a new SGSN (handover, Section 6.3.3.4, Page 23).

As to **claim 12** and **44**, 3GPP107 discloses claim 1 and 38, wherein the ADMF performs actual interception activation in a Control State Control Function (P-CSCF or S-CSCF of Figure C.2) and a General Packet Radio Service Support Node (GSN of Figure 1b in view of SGGN or GGSN of page 8) and sends the same LI information to these networks elements, wherein information on a need of interception is stored in the GSN, wherein one of the CSCF and a Policy Decision Function (PDF of CSCF, Figure C.2) of the CSCF includes only an indication of the interception need in the authorization decision (suggested by "Authorize QoS Resources", Figure C.2).

As to **claim 13**, 3GPP107 discloses claim 1, wherein the interception by the second network is activated by the first network using a type 2 Delivery Function (DF2, Figure 1b) wherein Lawful Interception (LI) information is sent from a Control State

Control Function (P-CSCF or S-CSCF, Figure C.2) then sends the LI information to a General Packet Radio Service Support Node (GSN, Figure 1b).

As to **claim 14**, 3GPP107 discloses claim 1, wherein the interception by the second network is activated by the first network based on mapping of an IP Multimedia Subsystem (LEMF, Figure 1b) identity to a General Packet Radio Service Support Node (GPRS) identity (identity of GSN, Figure 1b in view of GSN definition in page 8).

As to **claim 16**, 3GPP107 discloses claim 1, wherein the Mapping Function is provided in the ADMF (ADMF of Figure 1b) which receives Lawful Interception information related to a session in the second network when the session is started (Figure 1b in view of Figure 10).

As to **claim 17**, 3GPP107 discloses claim 1, wherein the Mapping Function is provided in the ADMF which receives session identifiers of the first network when the session in the first network is started (as explained by claim 1).

As to **claim 18**, 3GPP107 discloses the method according to claim 15, but is silent on wherein the Mapping Function is located in a DF2.

3GPP33.107 discloses DF2 (DF2 of Figure 1b), which is a block equivalent to ADMF as shown in Figure 1b, since claim 1 disclose Mapping Function is located in ADMF, one skilled in the art would place a mapping function in DF2 for the same reason as disclosed in claim 1.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to place a mapping function in DF2 in order to know the exact user LEMF is monitoring.

As to **claim 19**, 3GPP107 discloses the method according to claim 1, wherein the interception in the first network is activated based on an examination of content of communication (CC, Section 5.1.3, page 13) of the second network.

As to **claim 20**, 3GPP107 discloses the method according to claim 19, wherein an entity (DF3 or GSN of Figure 1b) checks a message received from a support node of the second network for detecting Lawful Interception (LI) information, and forwards such information, if found, to a Mapping Function, the Mapping Function resolving the LI information to a user identity of the first network wherein one of a network element and a function of the first network is commanded to start interception using the resolved user identity (the LI activation process as shown in Fig. 4).

As to **claim 21**, 3GPP107 discloses the method according to claim 20, wherein the Mapping Function is a Mapping Function of one of another network element and a function, the one of the another network element and the function commanding the one of the network element and the function of the first network to start interception using the resolved user identity (the LI activation process as shown in Fig. 4).

As to **claim 22**, 3GPP107 discloses the method according to claim 20, wherein the Mapping Function is located in a Delivery Function 3 (DF 3 of Figure 1b).

As to **claim 23**, 3GPP107 discloses the method according to claim 20, wherein the entity is a Delivery Function (DF2 or DF3 of Figure 1b).

As to **claim 24**, 3GPP107 discloses the method according to claim 20, wherein the entity is a Support Node of the second network (GSN of Figure 1b).

As to **claim 25**, 3GPP107 discloses the method according to claim 1, wherein the interception in the first network is activated based on a mapping of an identity of a user used in the second network to an identity of the same user in the first network (the activate process shown in Figure 5).

As to **claim 26**, 3GPP107 discloses the method according to claim 25, wherein a media authorization is performed between the first and second networks, a User Equipment sends an Authorization Token to the second network which Authorization Token represents a session being created in the first network, the Authorization Token being reported to a Mapping Function in a Lawful Interception (LI) information message which includes a user identity used in the second network, the Mapping Function activating interception in the first network (suggested by "Authorize QoS" of Figure C.2).

As to **claim 27**, 3GPP107 discloses the method according to claim 26, wherein the Mapping Function is a Mapping function of an Administration Function (ADMF of Fig. 4 in view of Figure 1b).

As to **claim 28**, 3GPP107 discloses the method according to claim 26, wherein the Mapping Function is located in a DF2 (suggested by the session path from LEMF to GSN via DF2 of Figure 1b).

As to **claim 29**, 3GPP107 discloses the method according to claim 25, wherein an Administration Function (ADMF, Figure 1b) receives Lawful Interception (LI) information containing a session identifier used in the first network from a network element of the second network, the ADMF uses the session identifier directly for

interception activation in the first network (suggested by the session path from LEMF to GSN via ADMF of Figure 1b).

As to **claim 30**, 3GPP107 discloses the method according to claim 1, wherein the interception in the first network is activated based on upload of Lawful Interception (LI) information from a network element of the second network (suggested by LI interrogation ack message of Figure 10).

As to **claim 32**, 3GPP107 discloses the method according to claim 1, wherein information of matching triggers of the first network is forwarded to the second network by using identities known in the second network (suggested activation process shown in Figure 5).

As to **claim 33**, 3GPP107 discloses the method according to claim 32, wherein the used identities are one of an International Mobile Subscriber Identity (IMSI, line 2 of [0008]) and a combination of a General Packet Radio Service Charging ID and a Gateway General Packet Radio Service Support Node identification (suggested by GSN, Figure 1b, in view of GSN definition in page 8).

As to **claim 34**, 3GPP107 discloses the method according to claim 1, wherein the decision of interception is done for every session created in the first network (suggested by Figure 1b, where decision is made by GSN network).

As to **claim 35**, 3GPP107 discloses the method according to claim 1, wherein the decision of interception issued for a session created in the first network is maintained in the first network after a termination of the session for use for at least one following session (suggested by the activation process in Figure 5).

As to **claim 36**, 3GPP107 discloses the method according to claim 1, wherein monitoring in the first network is activated by sending information to the first network when the interception is originally activated using target identifiers of the second network (suggested by the activation process in Figure 5).

As to **claim 37**, 3GPP107 discloses claim 36, wherein the target identifiers are one of an International Mobile Subscriber Identity (ID of user from LEMF point of view, Figure 1b), a Mobile Subscriber ISDN Number (ID of user MGW, Figure 1a), and an International Mobile Equipment Identity (ID of user in HLR, Figure HLR).

As to **claim 45, 46 and 49**, 3GPP107 discloses claim 38 and 45, comprising one of an Administration Function (ADMF), DF2 and DF3 (suggested by ADMF, DF2 and DF3 in Figure 1b with reason for mapping function explained in claim 1).

As to **claim 48**, 3GPP107 discloses claim 47, further comprising a mediation function ("Mediation Function" of Figure 1b).

6. **Claims 7 and 31** are rejected under 35 U.S.C. 103(a) as being anticipated by 3GPP107 in view of 3GPP TS 29.207, version 5.5.1, 2003-10 (hereinafter 3GPP29.207, a copy is provided Applicant as a NPL document, but not listed in IDS).

As to **claim 7 and 31**, 3GPP107 discloses claim 1 and 30, wherein the LI information is sent from one of a Call State Control Function (CSCF) and a Policy Decision Function (PDF) of a CSCF to a General Packet Radio Service (GPRS) support node (GSN, Figure 1b) over X1_1 interface (X1_1 interface, Figure 1b).

3GPP107 is silent on Go-interface.

In the same field endeavor, 3GPP29.207 discloses Go-interface (lines 1-6 of Section 4.1, page 9), which is closely related to 3GPP107 to describe particular area of the same whole system.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to modified 3GPP107 by adding information from 3GPP29.207 and 3GPP33.107 to provide more detailed and completed description for the benefit of better understanding of the subject.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jianye Wu whose telephone number is (571)270-1665. The examiner can normally be reached on Monday to Thursday, 8am to 7pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema Rao can be reached on (571)272-3174. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

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/Jianye Wu/

Examiner, Art Unit 2616

/Seema S. Rao/
Supervisory Patent Examiner, Art Unit 2616